



50C6-G

# BEAM POWER AMPLIFIER

50C6-G

## GENERAL DATA

### Electrical:

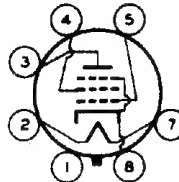
Heater, for Unipotential Cathode:

Voltage. . . . . 50 . . . . . ac or dc volts  
Current. . . . . 0.15 . . . . . amp

### Mechanical:

Mounting Position. . . . . Any  
Maximum Overall Length . . . . . 4-5/8"  
Seated Length. . . . . 3-7/8" + 3/16" - 5/16"  
Maximum Diameter . . . . . 1-13/16"  
Bulb . . . . . ST-14  
Base . . . . . Medium-Shell Octal 7-Pin  
Basing Designation for BOTTOM VIEW . . . . . G-7AC

Pin 1-No  
Connection  
Pin 2-Heater  
Pin 3-Plate  
Pin 4-Grid No.2



Pin 5-Grid No.1  
Pin 7-Heater  
Pin 8-Cathode,  
Grid No.3

## AF POWER AMPLIFIER - Class A<sub>1</sub>

### Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. . . . . 200 max. volts  
GRID-No.2 (SCREEN) VOLTAGE . . . . . 135 max. volts  
PLATE DISSIPATION. . . . . 12.5 max. watts  
GRID-No.2 INPUT. . . . . 1.75 max. watts

### Typical Operation and Characteristics:

Plate Voltage. . . . .	135	200	volts
Grid-No.2 Voltage. . . . .	135	135	volts
Grid-No.1 (Control-Grid) Voltage . . . . .	-13.5	-14	volts
Peak AF Grid-No.1 Voltage. . . . .	13.5	14	volts
Zero-Signal Plate Current. . . . .	58	61	ma
Max.-Signal Plate Current. . . . .	60	66	ma
Zero-Signal Grid-No.2 Current. . . . .	3.5	2.2	ma
Max.-Signal Grid-No.2 Current. . . . .	11.5	9.0	ma
Plate Resistance (Approx.) . . . . .	9300	18300	ohms
Transconductance . . . . .	7000	7100	μmhos
Load Resistance. . . . .	2000	2600	ohms
Total Harmonic Distortion. . . . .	10	10	%
Max.-Signal Power Output . . . . .	3.6	6.0	watts

Curves shown under Type 6Y6-G also apply to the 50C6-G.

FEB. 1, 1950

TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA